

WHAT IS CLAIMED IS:

1. An electronic apparatus comprising:
 - a first housing incorporating a heat-generating component and a first circuit component;
 - 5 a second housing coupled to the first housing and incorporating a second circuit component;
 - a heat-receiving portion provided in the first housing, and thermally connected to the heat-generating component;
 - 10 a head-radiating portion, provided in the second housing and radiating heat generated by the heat-generating component;
 - a circulation path through which liquid coolant is circulated between the heat-receiving portion and the heat-radiating portion to transfer the heat from the heat-generating component to the heat-radiating portion, and which includes a first pipe which supplies the liquid coolant heated in the heat-receiving portion to the heat-radiating portion and a second pipe which supplies the liquid coolant cooled in the heat-radiating portion to the heat-receiving portion; and
 - 20 a cable which extends between the first housing and the second housing and electrically connects the first circuit component and the second circuit component,
 - 25 wherein a junction between the first housing and second housing has three passages which connect an

interior of the first housing and an interior of the second housing, the cable extending through one of said three passages, and the first and the second pipes extend respectively through the remaining two of said
5 three passages.

2. The electronic apparatus according to claim 1, wherein the remaining two of said three passages, through which the first and second pipes extend, are spaced apart from each other in a widthwise direction
10 of the first and the second housings, and said one of said three passages, through which the cable extends, is positioned between said remaining two of said three passages.

3. The electronic apparatus according to claim 1,
15 further comprising two hinges which support the second housing to allow the first housing to rotate and which are spaced apart from each other in a widthwise direction of the first and the second housings, and said three passages are positioned between the hinges.

20 4. The electronic apparatus according to claim 1, wherein the junction between the first and second housings is located at a midpoint with respect to a widthwise direction of the first and second housings, the heat-radiating portion having a coolant inlet port
25 connected to the first pipe and a coolant outlet port connected to the second pipe, and the coolant inlet port and the coolant outlet port are spaced apart from

each other in the widthwise direction of the second housing.

5 5. The electronic apparatus according to claim 1,
wherein the second housing has a hollow leg which
protrudes toward the first housing and which has two
recesses spaced apart in a widthwise direction of the
second housing, the first housing has two hollow
projections which are inserted in the recesses, and
each of said three passages extends between one hollow
10 projection and a sidewall defining the recess in which
the hollow projection is inserted.

 6. The electronic apparatus according to claim 1,
wherein the first housing has a hollow support member
which protrudes toward the second housing and which has
15 two recesses spaced part in a widthwise direction of
the first housing, the second housing has two hollow
projections inserted in the recesses, and each of said
three passages extends between one hollow projection
and a sidewall defining the recess in which the hollow
20 projection is inserted.

 7. The electronic apparatus according to claim 1,
wherein the heat-receiving portion has a pump which
supplies the liquid coolant, heated in the heat-
receiving portion, to the heat-radiating portion.

25 8. The electronic apparatus according to claim 1,
wherein the first and the second pipes are flexible.

 9. An electronic apparatus comprising:

a first housing incorporating a heat-generating component and a circuit component;

a second housing incorporating a display and having a leg rotatably coupled to the first housing;

5 a heat-receiving portion provided in the first housing, and thermally connected to the heat-generating component;

a heat-radiating portion provided in the second housing, and radiating heat generated by the heat-
10 generating component;

a circulation path through which liquid coolant is circulated between the heat-receiving portion and the heat-radiating portion to transfer the heat from the heat-generating component to the heat-radiating
15 portion, and which includes a first pipe which supplies the liquid coolant heated in the heat-receiving portion to the heat-radiating portion and a second pipe which supplies the liquid coolant cooled in the heat-radiating portion to the heat-receiving portion; and

20 a cable which extends between the first housing and the second housing and electrically connects the circuit component and the display,

wherein a junction between the first housing and the leg has three passages which connect an interior of
25 the first housing and an interior of the second housing and which are arranged in a widthwise direction of the first and second housings, the cable extending through

one of said three passages, which is arranged between the remaining two of said three passages, and the first and the second pipes extend respectively through the remaining two of said three passages.

5 10. The electronic apparatus according to claim 9, wherein the leg has two recesses spaced apart in a widthwise direction of the second housing, the first housing has two hollow projections inserted in the recesses, and each of said three passages extends
10 between one hollow projection and a sidewall defining the recess in which the hollow projection is inserted.

 11. The electronic apparatus according to claim 9, wherein the heat-radiating portion has a coolant inlet port connected to the first pipe and a coolant outlet
15 port connected to the second pipe, and the coolant inlet port and coolant outlet port are spaced apart from each other in a widthwise direction of the second housing.

 12. An electronic apparatus comprising:
20 first housing means for incorporating a heat-generating component and a first circuit component;
 second housing means for coupling to the first housing and incorporating a second circuit component;
 heat-receiving means, provided in the first
25 housing means, for thermally connecting to the heat-generating component;
 head-radiating means, provided in the second

housing means, for radiating heat generated by the heat-generating component;

5 a circulation path through which liquid coolant is circulated between the heat-receiving means and the heat-radiating means to transfer the heat from the heat-generating component to the heat-radiating means, and which includes a first pipe which supplies the liquid coolant heated in the heat-receiving means to the heat-radiating means and a second pipe which
10 supplies the liquid coolant cooled in the heat-radiating means to the heat-receiving means; and

a cable which extends between the first housing means and the second housing means and electrically connects the first circuit component and the second
15 circuit component,

wherein a junction between the first housing means and second housing means has three passages which connect an interior of the first housing means and an interior of the second housing means, the cable
20 extending through one of said three passages, and the first and the second pipes extend respectively through the remaining two of said three passages.

13. The electronic apparatus according to claim 12, wherein the remaining two of said three
25 passages, through which the first and second pipes extend, are spaced apart from each other in a widthwise direction of the first housing means and the second

housing means, and said one of said three passages, through which the cable extends, is positioned between said remaining two of said three passages.

14. The electronic apparatus according to
5 claim 12, further comprising two hinges which support the second housing means to allow the first housing means to rotate and which are spaced apart from each other in a widthwise direction of the first housing means and the second housing means, and said three
10 passages are positioned between the hinges.

15. The electronic apparatus according to claim 12, wherein the junction between the first housing means and the second housing means is located at a midpoint with respect to a widthwise direction of
15 the first housing means and the second housing means, the heat-radiating portion having a coolant inlet port connected to the first pipe and a coolant outlet port connected to the second pipe, and the coolant inlet port and the coolant outlet port are spaced apart from
20 each other in the widthwise direction of the second housing means.

16. The electronic apparatus according to claim 12, wherein the second housing means has a hollow leg which protrudes toward the first housing means and
25 which has two recesses spaced apart in a widthwise direction of the second housing means, the first housing means has two hollow projections which are

inserted in the recesses, and each of said three passages extends between one hollow projection and a sidewall defining the recess in which the hollow projection is inserted.

5 17. The electronic apparatus according to claim 12, wherein the first housing means has a hollow support member which protrudes toward the second housing means and which has two recesses spaced part in a widthwise direction of the first housing means, the
10 second housing means has two hollow projections inserted in the recesses, and each of said three passages extends between one hollow projection and a sidewall defining the recess in which the hollow projection is inserted.

15 18. The electronic apparatus according to claim 12, wherein the heat-receiving means has a pump which supplies the liquid coolant, heated in the heat-receiving means, to the heat-radiating means.

 19. The electronic apparatus according to
20 claim 12, wherein the first and the second pipes are flexible.

 20. An electronic apparatus comprising:
 first housing means for incorporating a heat-generating component and a circuit component;
25 second housing means incorporating a display, and having a leg rotatably coupled to the first housing;
 heat-receiving means, provided in the first

housing means, for thermally connecting to the heat-generating component;

heat-radiating means, provided in the second housing means, for radiating heat generated by the
5 heat-generating component;

a circulation path through which liquid coolant is circulated between the heat-receiving means and the heat-radiating means to transfer the heat from the heat-generating component to the heat-radiating means,
10 and which includes a first pipe which supplies the liquid coolant heated in the heat-receiving means to the heat-radiating means and a second pipe which supplies the liquid coolant cooled in the heat-radiating means to the heat-receiving means; and

15 a cable which extends between the first housing means and the second housing means and electrically connects the circuit component and the display,

wherein a junction between the first housing means and the leg has three passages which connect an
20 interior of the first housing means and an interior of the second housing means and which are arranged in a widthwise direction of the first housing means and the second housing means, the cable extending through one of said three passages, which is arranged between the
25 remaining two of said three passages, and the first and the second pipes extend respectively through the remaining two of said three passages.

21. The electronic apparatus according to
claim 20, wherein the leg has two recesses spaced apart
in a widthwise direction of the second housing means,
the first housing means has two hollow projections
5 inserted in the recesses, and each of said three
passages extends between one hollow projection and an
sidewall defining the recess in which the hollow
projection is inserted.

22. The electronic apparatus according to
10 claim 20, wherein the heat-radiating means has a
coolant inlet port connected to the first pipe and a
coolant outlet port connected to the second pipe, and
the coolant inlet port and coolant outlet port are
spaced apart from each other in a widthwise direction
15 of the second housing means.